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☐ 1. Document ID: US 6742015 B1

L7: Entry 1 of 6

File: USPT

May 25, 2004

US-PAT-NO: 6742015

DOCUMENT-IDENTIFIER: US 6742015 B1

TITLE: Base services patterns in a netcentric environment

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 718/101; 709/223, 718/100, 719/316

ABSTRACT:

A system and method are provided for providing base service patterns for use in a component-based architecture. A batch job pattern is provided for structuring batch components such that common architectural services are implemented uniformly across the batch components. A batch unit of work pattern is utilized for structuring work to be processed by the batch components so that the work is treated uniformly by the batch components. A processing pipeline pattern is implemented for structuring batch activities for simplified reconfiguration of the batch activities, including preparing to perform a series of processing steps on input objects, encapsulating each of the processing steps within a filter, receiving and processing the input objects in one of filters; delivering results from the filters incrementally during processing of the input objects, utilizing connectors for connecting at least two of the plurality of filters, and using connectors for connecting input and output filters of different processes for forming a scalable system. An abstraction factory is used to encapsulate differences between objects such that only activities that need to understand the difference between the objects have to deal with the differences.

6 Claims, 195 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 123

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw. D.</a>
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☐ 2. Document ID: US 6640238 B1

L7: Entry 2 of 6

File: USPT

Oct 28, 2003

US-PAT-NO: 6640238

DOCUMENT-IDENTIFIER: US 6640238 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Activity component in a presentation services patterns environment

DATE-ISSUED: October 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michael K.	Colorado Springs	CO		

US-CL-CURRENT: 709/201; 709/203, 709/223, 709/224

## ABSTRACT:

A system, method, and article of manufacture provide for an activity module. A server and a presentation interface of a client are interfaced to permit the receipt of requests for service from the presentation interface of the client. A portion of the requests are handled on the client. Another portion of the requests are forwarded to the server for further handling purposes and changes are effected in the presentation interface.

18 Claims, 195 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawing
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☐ 3. Document ID: US 6496850 B1

L7: Entry 3 of 6

File: USPT

Dec 17, 2002

US-PAT-NO: 6496850

DOCUMENT-IDENTIFIER: US 6496850 B1

TITLE: Clean-up of orphaned server contexts

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/203; 707/102, 709/224, 709/228

## ABSTRACT:

A system, method and article of manufacture are provided for detecting an orphaned server context. A collection of outstanding server objects is maintained and a list

of contexts is created for each of the outstanding server objects. A compilation of clients who are interested in each of the outstanding server objects are added to the list. Recorded on the list is a duration of time since the clients invoked a method accessing each of the contexts of the outstanding server objects. The list is examined at predetermined intervals for determining whether a predetermined amount of time has passed since each of the objects has been accessed. Contexts that have not been accessed in the predetermined amount of time are selected and information is sent to the clients identifying the contexts that have not been accessed in the predetermined amount of time.

19 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6477665 B1

L7: Entry 4 of 6

File: USPT

Nov 5, 2002

US-PAT-NO: 6477665  
DOCUMENT-IDENTIFIER: US 6477665 B1

TITLE: System, method, and article of manufacture for environment services patterns in a netcentric environment

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/39; 712/244

ABSTRACT:

A system, method and article of manufacture are provided for implementing environment services patterns. First, a successfulness of an operation is tested, wherein the operation has pre-conditions and post-conditions that must be satisfied for the operation to be successful. Then, there is an attempt to detect an orphaned server context. A common interface is created for exception handling. Requirements for such exception handling are also recorded to maintain a consistent error handling approach. Incoming requests are distributed amongst server components for optimizing usage of resources. Finally, the amount of changes that need to be made to exception handling logic are minimized when new exceptions are added.

18 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6400996 B1

L7: Entry 5 of 6

File: USPT

Jun 4, 2002

US-PAT-NO: 6400996

DOCUMENT-IDENTIFIER: US 6400996 B1

TITLE: Adaptive pattern recognition based control system and method

DATE-ISSUED: June 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoffberg; Steven M.	West Harrison	NY	10994	
Hoffberg-Borghesani; Linda I.	Acton	MA	01720	

US-CL-CURRENT: 700/83; 370/218, 370/355, 700/17, 700/24, 700/25, 700/86, 700/87, 709/223, 709/227, 715/810, 715/840, 715/841, 718/102, 719/318

## ABSTRACT:

An adaptive interface for a programmable system, for predicting a desired user function, based on user history, as well as machine internal status and context. The apparatus receives an input from the user and other data. A predicted input is presented for confirmation by the user, and the predictive mechanism is updated based on this feedback. Also provided is a pattern recognition system for a multimedia device, wherein a user input is matched to a video stream on a conceptual basis, allowing inexact programming of a multimedia device. The system analyzes a data stream for correspondence with a data pattern for processing and storage. The data stream is subjected to adaptive pattern recognition to extract features of interest to provide a highly compressed representation that may be efficiently processed to determine correspondence. Applications of the interface and system include a video cassette recorder (VCR), medical device, vehicle control system, audio device, environmental control system, securities trading terminal, and smart house. The system optionally includes an actuator for effecting the environment of operation, allowing closed-loop feedback operation and automated learning.

25 Claims, 32 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6332163 B1

L7: Entry 6 of 6

File: USPT

Dec 18, 2001

US-PAT-NO: 6332163

DOCUMENT-IDENTIFIER: US 6332163 B1

TITLE: Method for providing communication services over a computer network system

DATE-ISSUED: December 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/231, 709/217, 709/223, 709/227, 719/329

## ABSTRACT:

A system, method and article of manufacture are provided for implementing communication services patterns. A fixed format stream-based communication system is provided and service is delivered via a globally addressable interface. Access is afforded to a legacy system. Service is delivered via a locally addressable interface. A null value is communicated and data is transmitted from a server to a client via pages. A naming service and a client are interfaced with the naming service allowing access to a plurality of different sets of services from a plurality of globally addressable interfaces. A stream-based communication system is provided and data is efficiently retrieved.

15 Claims, 195 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6789116 B1

L8: Entry 1 of 5

File: USPT

Sep 7, 2004

US-PAT-NO: 6789116

DOCUMENT-IDENTIFIER: US 6789116 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: State processor for pattern matching in a network monitor device

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sarkissian; Haig A.	San Antonio	TX		
Dietz; Russell S.	San Jose	CA		
Kopenhagen; Andrew A.	Littleton	CO		

US-CL-CURRENT: 709/224; 370/235, 370/392

ABSTRACT:

A processor for processing contents of packets passing through a connection point on a computer network. The processor includes a searching apparatus having one or more comparators for searching for a reference string in the contents of a packet, and processes contents of all packets passing through the connection point in real time. In one implementation, the processor is programmable and has an instruction set that includes an instruction for invoking the searching apparatus to search for a specified reference string in the packet starting at an unknown location within a range of the packet.

22 Claims, 27 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 23

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw D</a>
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☐ 2. Document ID: US 6771646 B1

L8: Entry 2 of 5

File: USPT

Aug 3, 2004

US-PAT-NO: 6771646

DOCUMENT-IDENTIFIER: US 6771646 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Associative cache structure for lookups and updates of flow records in a network monitor

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sarkissian; Haig A.	San Antonio	TX		
Dietz; Russell S.	San Jose	CA		

US-CL-CURRENT: 370/392; 370/252, 370/352, 370/412, 709/223, 711/119

ABSTRACT:

A cache system for looking up one or more elements of an external memory includes a set of cache memory elements coupled to the external memory, a set of content addressable memory cells (CAMs) containing an address and a pointer to one of the cache memory elements, and a matching circuit having an input such that the CAM asserts a match output when the input is the same as the address in the CAM cell. The cache memory element which a particular CAM points to changes over time. In the preferred implementation, the CAMs are connected in an order from top to bottom, and the bottom CAM points to the least recently used cache memory element.

20 Claims, 23 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 3. Document ID: US 6594775 B1

L8: Entry 3 of 5

File: USPT

Jul 15, 2003

US-PAT-NO: 6594775

DOCUMENT-IDENTIFIER: US 6594775 B1

TITLE: FAULT HANDLING MONITOR TRANSPARENTLY USING MULTIPLE TECHNOLOGIES FOR FAULT HANDLING IN A MULTIPLE HIERARCHAL/PEER DOMAIN FILE SERVER WITH DOMAIN CENTERED, CROSS DOMAIN COOPERATIVE FAULT HANDLING MECHANISMS

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fair; Robert Lawrence	Cary	NC	27513	

US-CL-CURRENT: 714/4; 707/10, 709/224

ABSTRACT:

A fault handling monitor transparently using multiple technologies for fault handling in a shared system resource, such as a network file server, providing services to clients communicating with the system resource through a network. The system resource is organized as a cluster of multiple hierarchical and peer domains wherein each domain includes domain centered fault handling mechanisms operating cooperatively across domains. The system resource includes a network domain including a plurality of client/resource communications paths and supporting client/resource communications between the system resource and clients of the system resource, a resource service domain performing low level resource services operations, and a control/processing domain supporting the client/resource communications of the network domain, performing high level resource service operations and providing communications for resource service operations between the network domain and the resource service domain. The control/processing domain includes peer domains connected to the communications paths of the network domain and performing related operations in mutual support of the network domain, including supporting the client/resource communications operations and providing communications between the peer domains through an inter-domain communications link. Each peer domain includes a monitoring mechanism for detecting a communications failure in a peer domain and directing communications affected by the communications failure through one or more of a plurality of alternate paths, including an alternate one of the plurality of client/resource communications paths and the inter-domain communications link.

9 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 5900014 A

L8: Entry 4 of 5

File: USPT

May 4, 1999

US-PAT-NO: 5900014

DOCUMENT-IDENTIFIER: US 5900014 A

TITLE: External means of overriding and controlling cacheability attribute of selected CPU accesses to monitor instruction and data streams

DATE-ISSUED: May 4, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bennett; Brian R.	Laguna Niguel	CA		

US-CL-CURRENT: 711/138; 714/29, 717/127, 717/134

ABSTRACT:

A system for facilitating debugging of software running within an information processing unit includes an external trigger state machine which selectively overrides the cacheability attribute of a cache line. An in-circuit emulator (ICE), which is used for debugging purposes, monitors addresses read by and written to a CPU. If an address which is of interest for debugging purposes is detected by the



ICE, then the ICE issues a trigger signal. The trigger signal causes the external trigger state machine to designate the cache line associated with the detected address as a non-cacheable operation (i.e., to override the cacheability attribute) . Thus, the data associated with the cache line is written out to the main memory module where the data can be observed by an ICE, rather than to an internal cache memory location where the data would be invisible to an ICE. In a preferred embodiment of the invention, the external trigger state machine is configured to operate in a pipelining environment wherein multiple requests may be outstanding at one time.

8 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 5. Document ID: US 3701971 A

L8: Entry 5 of 5

File: USPT

Oct 31, 1972

US-PAT-NO: 3701971  
DOCUMENT-IDENTIFIER: US 3701971 A

TITLE: TERMINAL MESSAGE MONITOR

DATE-ISSUED: October 31, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gary L. Sanner	Detroit	MI		
Charles B. Hebler	Farmington	MI		

US-CL-CURRENT: 709/224; 710/15, 714/47

ABSTRACT:

A monitoring system to permit a first terminal computer on line with a central processor to monitor message traffic from the central processor to other terminals concatenated or in a multidrop mode with the first. When messages are sent through a modem to a plurality of terminal computers in a concatenated configuration a verification of message traffic is provided. Logic circuitry is provided for monitoring both transmitted and received information and providing a printout of the communication line information. The monitoring terminal, regardless of the address of the message, will store the communication line information in its memory and print out the stored information to provide a positive communication system check.

6 Claims, 5 Drawing figures Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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